

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE SYLLABUS 2nd Semester AY2022-2023
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Course Code:	ITEC70	Course Title:	Data Structure	Type:	Lecture	Credit Units:	3 UNITS
Course Description				guiadgud			
Pre-requisites:	N/A		Course Sched Laboratory / Lecture:		11:00 AM - 12:00 PM AM WED / 7:00 AM - 12:00 PM FRI		
Core Values	<p>Students are expected to live by and stand for the following University tenets:</p> <p>TRUTH is demonstrated by the student's objectivity and honesty during examinations, class activities and in the development of projects.</p> <p>EXCELLENCE is exhibited by the students' self-confidence, punctuality, diligence and commitment in the assigned tasks, class performance and other course requirements.</p> <p>SERVICE is manifested by the students' respect, rapport, fairness and cooperation in dealing with their peers and members of the community.</p> <p>In addition, they should exhibit love and respect for nature and support for the cause of humanity.</p>						
Goals of the College / Campus	<p>Imus Campus shall endeavor to achieve the following goals:</p> <ol style="list-style-type: none"> 1. provide a general education program that will promote national identity, cultural consciousness, moral integrity and spiritual vigor; 2. train the nation's manpower in the skills required by the national development; 3. develop professions that will provide leadership for the nation; an advance knowledge through research work and apply new knowledge for improving the quality of human life; 4. respond effectively to changing societal needs and conditions; 						

Objectives of the Department	The Department of Information Technology shall endeavor to: 1. produce skilled professionals; 2. produce globally competitive and morally upright individuals; 3. give students advance knowledge through a research work and respond effectively to changing societal needs and conditions; 4. promote leadership, development and apply IT skills for the improvement of the quality of life; and 5. provide students both local and international careers not only in the IT industry but in various field such as medicine, arts, entertainment, engineering, communication, and a lot more.							
Program Educational Objectives (based on the program CMO)								
The BSINFOTECH program aims to produce graduate who can: 1.apply knowledge of utilization of both hardware and software technologies involving planning, installing, customizing, operating, managing and administering, and maintaining information technology infrastructure that provide computing solutions to address the needs of an organization; 2. conduct relevant researches and extension program activities in the field of information technology; 3. promote the development and transfer of appropriate information technology; 4. promote environmental preservation and protection on projects and enterprises related to information technology; and 5. become morally upright IT professionals with primary and secondary job roles.								
Program Educational Objectives (based on the program CMO)								
Program/Student Outcomes (based on the program CMO)				Program Educational Objectives (based on the program CMO)				
The students should:				1	2	3	4	5
a.	apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science and domain knowledge appropriate for computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.							

b.	identify, analyze, formulate, research literature, and solve complex computing problems and requirements reaching substantiated conclusions using fundamental principles of mathematics, computing science, and relevant domain disciplines.					
c.	an ability to apply mathematical foundations, algorithm principles and computer science theory in the modeling and design of computer-based systems in a way that demonstrate comprehension of the tradeoffs involved in design choice.					
d.	knowledge and understanding of information security issues in relation to design, development and use of information systems.					
e.	design and Evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental consideration.					
f.	create select, adapt, and apply appropriate techniques, resources and modern computing tools to complex computing activities, with an understanding of the limitations to accomplish a common goal.					
g.	function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.					

COURSE AVERAGE							
Week No.	Intended Learning Outcomes (ILO)	Topic	Teaching and Learning Activities (TLA)	Mode of Delivery	Resources Needed	Outcomes based Assessment (OBA)	Due Date of Submission of Output
1	fioebfi	kfbwqfi	kbfibqiwfb	mnefjeb	jbfuhei	bfuegfu	bfuwqb
2							
3-5							
6-8							
9	MIDTERM EXAMINATION						
10-12							
13-15							
16-17							
9	FINAL EXAMINATION						

COURSE REQUIREMENTS
<p>Suggested Lecture Requirements:</p> <ol style="list-style-type: none"> 1. Mid-Term Examination 2. Final Examination 3. Quizzes/Seat works/Recitations 4. Video presentation 5. Fact Sheet 6. Class Reporting/Reaction Paper 7. Assignments 8. Class or Group Project (Term Paper/Project Design/Case Study/Feasibility Study/Culminating Activity/Portfolio) 9. Class Attendance <p>Suggested Laboratory Requirements:</p> <ol style="list-style-type: none"> 1. Laboratory Reports 2. Individual Performance 3. Quizzes 4. Mid-Term Examination 5. Final Examination 6. Video presentation 7. Fact Sheet 8. Attendance <p>*All exams must follow a Table of Specifications (TOS) and Rubrics for evaluation of student performance or projects.</p>
GRADING SYSTEM

A. Grading system for 2 units lecture and 1 unit laboratory (i.e. DCIT 21; 3 units; Lec - 2 hrs & Lab - 3 hrs)

Lecture – 60%

Laboratory – 40%

B. Grading system for 1 unit lecture and 2 units laboratory (i.e. DCIT 22; 3 units; Lec -1 hr & Lab - 6 hrs)

Lecture – 40%

Laboratory – 60%

C. Grading system for 2 units lecture and 3 units laboratory (i.e. ELEX 50; 5 units; Lec – 2 hrs & Lab – 9 hrs)

Lecture – 30%

Laboratory – 70%

CLASS POLICIES

A. Attendance

B. Classroom Decorum

C. Examination/ Evaluation

REFERENCES & SUPPLEMENTARY READINGS

A. Laboratory Manual (if with laboratory)

B. Reference Books

C. Electronic References(E-books/Websites)

REVISION HISTORY

Revision Number	Date of Revision	Date of Implementation	Highlights of Revision
	2023-02-03	2nd Semester AY2022-2023	
Prepared by: Gizelle Rodero Instructor 1 09052826373 juand@gmail.com Department of Information Technology Consultation Schedule: Mon 6:00 -7:00 pm Tue 6:00 -7:00 pm Date Prepared: 2023-02-03	Evaluated by: Ricky Tepora Chairperson Department of Information Technology rickytepora@gmail.com Date Evaluated: 2023-02-03 Actual signature: _____	Approved by: MARLON A. MOJICA, PhD Campus Administrator Imus Campus Date Approved: 2023-02-03 Actual signature: _____	